PATENT COOPERATION TREATY

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see form	n PCT/ISA/220		WRIT [*]	TEN OPINION OF THE	Ē
See 10111	I FC MSA/220			NAL SEARCHING AUT	
			(F	PCT Rule 43 <i>bis</i> .1)	
			Date of malling		
			(day/month/year) se	e form PCT/ISA/210 (second sheet	1)
Applicant's or agent's fi see form PCT/ISA/			FOR FURTHER ACTION See paragraph 2 below		
International application		International filing date (
PCT/GB2005/0000	/6	12.01.2005		14.01.2004	
	• •	both national classification	and IPC		
A61L26/00, C08L1					
Applicant AVANTICARE LTD	•			***	
AVANTICANE LIL	· · · · · · · · · · · · · · · · · · ·		·		
 This opinion of 	ontains indication	ons relating to the follo	owing items:		
🖾 Box No. I	Basis of the op	inion			
☐ Box No. II	Priority				
☐ Box No. III	Non-establish	nent of opinion with rega	ard to novelty, inventiv	e step and industrial applicabii	lity
☐ Box No. IV	Lack of unity of	f invention			
🖾 Box No. V	Reasoned state applicability; cit	ement under Rule 43 <i>bis</i> tations and explanations	:.1(a)(i) with regard to s supporting such state	novelty, inventive step or indus	strial
☐ Box No. VI	Certain docum				
☐ Box No. VII	Certain defects	in the international app	llcation		
Box No. VIII	Certain observ	ations on the internation	al application	,	
2. FURTHER ACT	TON				
If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.					
submit to the IP	EA a written reply a date of mailing of	/ together, where approx	oriate, with amendme	PEA, the applicant is invited to nts, before the expiration of thr of 22 months from the priority o	ee
For further optic	ns, see Form PC	T/ISA/220.			
3. For further deta	ils, see notes to F	Form PCT/ISA/220.			
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Bochelen, D

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European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465

International application No. PCT/GB2005/000076

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_	Box N	lo. I Basis of the opinion		
1.	 With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. 			
	la	his opinion has been established on the basis of a translation from the original language into the following nguage , which is the language of a translation furnished for the purposes of international search under Rules 12.3 and 23.1(b)).		
2.	 With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of: 			
	a. type of material:			
		a sequence listing		
		table(s) related to the sequence listing		
	b. format of material:			
,		in written format		
		in computer readable form		
	c. time	of filing/furnishing:		
		contained in the international application as filed.		
		filed together with the international application in computer readable form.		
		furnished subsequently to this Authority for the purposes of search.		
3.	há	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto as been filed or furnished, the required statements that the information in the subsequent or additional pies is identical to that in the application as filed or does not go beyond the application as filed, as propriate, were furnished.		
4.	Additio	nal comments:		

International application No. PCT/GB2005/000076

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

No: Claims

1,27,31,32

Inventive step (IS)

Yes: Claims

No: Claims

1-32

Industrial applicability (IA)

Yes: Claims

1-32

No: Claims

2. Citations and explanations

see separate sheet

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

Re_Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Prior art:

Reference is made to the following documents:

- D1: WO 98/40110 A (POLYBIOMED LIMITED; AL-LAMEE, KADEM, GAYAD; TAKTAK, YOUSEF, SAMIH) 17 September 1998 (1998-09-17)
- D2: EP-A-0 666 081 (BRISTOL-MYERS SQUIBB COMPANY) 9 August 1995 (1995-08-09)
- D3: EP-A-0 567 311 (BRISTOL-MYERS SQUIBB COMPANY; E.R. SQUIBB & SONS, INC) 27 October 1993 (1993-10-27)
- D4: WO 00/52092 A (E.I. DU PONT DE NEMOURS AND COMPANY; GODDARD, SIMON, JAMES; CAMBRIDGE) 8 September 2000 (2000-09-08)
- D5: US-A-4 813 942 (ALVAREZ ET AL) 21 March 1989 (1989-03-21)

If not indicated otherwise the relevant passages are those mentioned in the search report.

Document D1 discloses a gel for use as wound dressing comprising a) sodium pectate b) carboxymethyl cellulose and c) polyethylene glycol, wherein the sodium pectate and carboxymethyl cellulose are cross-linked by calcium ions.

Document D2 discloses a wound dressing comprising a gelling agent, e.g. pectin from citrus peel, a hydrocolloid, like carboxymethyl cellulose and a glycol, e.g. polyethylene glycol.

Document D3 discloses a wound dressing comprising a gelling agent, e.g. pectin from citrus peel, a hydrocolloid, like carboxymethyl cellulose and a glycol, e.g. polyethylene glycol.

Document D4 discloses a composition comprising a first polymer comprising

arabinosyl-substituted xylopyranosyl units cross-linked with a second polymer comprising D-galacturonic acid units, e.g. a pectin, and use thereof as wound dressing.

Document D5 discloses dressings comprising citrus pectin and carboxymethyl cellulose for wound debridement and regeneration.

- 2. Novelty (Art. 33 (1) and (2) PCT):
- 2.1 Although document D1 does not explicitly mention "citrus complex carbohydrates" it seems that the pectin disclosed in D1 fall in the scope of these terms. Therefore it is considered that the disclosure of D1 anticipates claim 1. Claims 1 and 31-32 lack novelty under Art. 33(2) PCT.
- 2.2 The process that is subject-matter of claim 27 is disclosed in document D1 (see example on pages 8-9). Claim 27 thus lacks novelty under Art. 33(2) PCT.
- 3. Inventive step (Art. 33 (1) and (3) PCT):
- 3.1 Dependent claims 2-26 and 28-30 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step, the reasons being as follows: the preferred embodiments which are subject-matter of the dependent claims are either disclosed in D1 or are obvious alternatives to the disclosure of D1.
- 3.2 It is noted that even in the case were claims 1 and 27 would be considered novel an inventive step would not be acknowledged the for the following reasons:
 - Document D1 which is considered to the closes prior art discloses a gel for use as wound dressing comprising sodium pectate cross-linked to carboxymethyl cellulose by calcium ions and polyethylene glycol. The claims would differ in that the pectin is derived from citrus peel. The problem to be solved would thus be regarded as to provide alternative gel compositions. Documents D2 and D3 disclose the use of citrus peel pectines in wound dressing gels. It would thus be obvious to use citrus derived

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/GB2005/000076

pectines in the gel disclosed in D1.

Re Item VIII

Certain observations on the international application

- 4. The wording of claim 32 is unclear (Art. 6 PCT).
- 5. Claim 29 refers to the description contrary to Rule 6.2 (a) PCT.

PATENT COOPERATION TREATY

To:	VATIONAL SEA	RCHING AUTH			PCT 19 MAY 2005	
			28/67		WIPO	PO"
see form PCT/ISA/220				INTERNATION	TEN OPINION OF THE NAL SEARCHING AUTHORI PCT Rule 43 <i>bis</i> .1)	ΤY
				Date of mailing (day/month/year) se	e form PCT/ISA/210 (second sheet)	
Applicant's or agent's file reference see form PCT/ISA/220				FOR FURTHER ACTION See paragraph 2 below		
International application No. PCT/GB2005/000076			International filing date (4	(day/month/year) Priority date (day/month/year) 14.01.2004		
	tional Patent Class 26/00, C08L1/0	• •	both national classification	and IPC		
Applica AVAN	ITICARE LTD					
_	This opinion co ☑ Box No. I	ontains indication	ons relating to the foll	owing items:		
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	Box No. VI	Certain docum	ents cited			
_	Box No. VII		in the international app		• ;	
×	Box No. VIII	Certain observ	ations on the internation	al application	•	
2. F	URTHER ACTI	ON ·				
w th ir	vritten opinion of he applicant cho	f the Internation: coses an Authorl eau under Rule	al Preliminary Examining ity other than this one to	g Authority ("IPEA"). H be the IPEA and the	usually be considered to be a lowever, this does not apply where chosen IPEA has notifed the tional Searching Authority	
s: m	ubmit to the IPE	A a written reply date of mailing of	y together, where appro	priate, with amendme	PEA, the applicant is invited to nts, before the expiration of three of 22 months from the priority date,	
F	or further option	ns, see Form PC	T/ISA/220.			
3. F	or further detail	s, see notes to F	Form PCT/ISA/220.			
Name a	and mailing addres	s of the ISA:		Authorized Officer		

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International application No. PCT/GB2005/000076

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International application No. PCT/GB2005/000076

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

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